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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7055

7590

03/14/2008

GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE RESTON, VA 20191 EXAMINER

SONG, SARAH U

ART UNIT PAPER NUMBER

2874 DATE MAILED: 03/14/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/596,393	06/12/2006	Takanori Sugiyama	P30089	6011

TITLE OF INVENTION: OPTICAL SWITCH

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/16/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificat	correspondence including d below or directed other tions.	g the Patent, advance or serwise in Block 1, by (a	rders and notification of many specifying a new corres	paintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fee(	s) Transmittal. This rs. Each additional	s certif paper	icate cannot be used for	r domestic mailings of the or any other accompanying nt or formal drawing, must
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	I & BERNSTEIN, CLARKE PLACE 0191	P.L.C.	I her State addr trans	eby certify that thi is Postal Service wessed to the Mail mitted to the USPT	s Fee(s ith suf Stop O (57	of Maining of Transis 5) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	deposited with the United t class mail in an envelope above, or being facsimile te indicated below.
							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/596,393	06/12/2006	•	Takanori Sugiyama	•		P30089	6011
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nonprovisional	NO	\$1440	\$300	\$0		\$1740	06/16/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
SONG, SA	ARAH U	2874	385-018000				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME ADDRESSE NOTE: Unl	ess an assignee is identi n in 37 CFR 3.11. Comp	'Indication form ed. Use of a Customer A TO BE PRINTED ON Tified below, no assignee	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be THE PATENT (print or typ data will appear on the patent as substitute for filing an a (B) RESIDENCE: (CITY	ely, firm (having as a gent) and the name neys or agents. If rorinted.  e) tent. If an assigne assignment.	memb es of up no nam	er a 2	ocument has been filed for
4a. The following fee(s) a ☐ Issue Fee ☐ Publication Fee (N		4b permitted)	inted on the patent):  D. Payment of Fee(s): (Plea A check is enclosed. Payment by credit care The Director is hereby overpayment, to Depos	se first reapply an  I. Form PTO-2038 authorized to chars	y prev	iously paid issue fee s	shown above)
••	s SMALL ENTITY statu	s. See 37 CFR 1.27.	b. Applicant is no long d from anyone other than the Office.	er claiming SMAL	L ENT	CITY status. See 37 CF	FR 1.27(g)(2).
interest as shown by the r	ecords of the United Sta	tes Patent and Trademark	Office.				
Authorized Signature				Date			
Typed or printed name			Registration No ation is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process				
This collection of informan application. Confident submitting the completed his form and/or suggesting V450. Alexandria. V	ation is required by 37 C iality is governed by 35 I application form to the ons for reducing this bur irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (	on is required to obtain or re 1.14. This collection is esti depending upon the indiv. e Chief Information Office COMPLETED FORMS TO	etain a benefit by the mated to take 12 n dual case. Any con r, U.S. Patent and T D THIS ADDRESS	ne publ ninutes mment Fraden . SENI	ic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete urtment of Commerce, P.O. for Patents, P.O. Box 1450.

Alexandria, Virginia 22313-1450.

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GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE			SONG, SARAH U			
			ART UNIT	PAPER NUMBER		
RESTON, VA 201	91		2874			
			DATE MAILED: 03/14/2008			

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

3.		Application No.	Applicant(s)
Sarah Song		10/506 303	SUGIYAMA ET AI
The MAILING DATE of this communication appears on the cover sheet with the correspondence address—All claims being allowable, PROSECUTION ON THE MERTS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a bottee of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR. 1313 and MPEP 1308.  1. ☑ This communication is responsive to request for continued examination filled 07 February 2008.  2. ☑ The allowed claim(s) Islane 1 and 3-16.  3. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☑ All b) ☐ Some* o) ☐ None of the:  1. ☐ Certified opies of the priority documents have been received.  2. ☐ Certified opies of the priority documents have been received in Application No  3. ☑ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  *Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. The Jaline to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the Attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  (c)	Notice of Allowability	· · · · · · · · · · · · · · · · · · ·	
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All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-58) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CPR 1.313 and MPEP 1308.  1.		Saran Song	2014
2. ☑ The allowed claim(s) is/are 1 and 3-16. 3. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☐ certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☑ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached  1) ☐ heretor or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  (b) ☐ indicia such as the application number (see 37 CFR 1.34(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).  6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding Requirement FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.  Attachment(s)  1. ☑ Notice of Praftperson's Patent Drawing Review (PTO-948)  9 Aper No./Mail Date  7. ☐ Examiner's Amendment/Comment Regarding Requirement for Deposit of Biological Material	All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject	oplication. If not included on will be mailed in due course. <b>THIS</b>
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#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 19, 2007 has been entered.

## Allowable Subject Matter

- 2. Claims 1 and 3-16 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Stanley and Karaguleff (newly cited), and Makio (previously relied upon) discloses switch configurations wherein the optical axes of two fibers are substantially parallel and the optical axis of a third fiber is skewed with respect to the other optical axes. However, Stanley and Karaguleff do not disclose or reasonably suggest an integrally formed lens block comprising collimating lenses positioned side by side in the device body, each collimating lens having a same focal length, two of the collimating lenses having parallel optical axes and the optical axis of the third collimating lens being skewed with respect to the optical axes of the two collimating lenses, a prism, and switching mirror insertable into and removable from between the lens block and the prism, as recited in claim 1. Furthermore, Chen et al. (previously relied upon) discloses all the optical axes of the two collimating lenses to be parallel and does not disclose or reasonably suggest the third collimating lens having a skewed optical axis. The prior art of record does not disclose or

reasonably suggest all of the claimed limitations. Therefore, claims 1 and 3-16 are allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sarah Song whose telephone number is 571-272-2359. The examiner can normally be reached on M-Th 7:30am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on 571-272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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